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(71)Applicant : MURATA MFG CO LTD

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(72)Inventor : SUBE MITSURU

(54) PIEZOELECTRIC PORCELAIN

(57)Abstract:

PURPOSE: To produce a piezoelectric porcelain for filters, having a high electromechanical coupling factor, excellent in temperature characteristics of resonance frequency and capable of dealing with a wide band.

CONSTITUTION: This piezoelectric porcelain is obtained by replacing ≥ 0.5 to $< 5\text{mol}\%$ Pb atoms in lead zirconate titanate represented by the general formula $a\text{Pb}(\text{Mg}1/3\text{Nb}2/3)\text{O}3\text{-}b\text{PbTiO}3\text{-}c\text{PbZrO}3$ [a, b and c are each $1 \leq a \leq 10$; $42 \leq b \leq 60$; $30 \leq c \leq 57$, with the proviso that a, b and c are each mol% and (a+b+c) is 100] with Mg and further adding and including ≥ 0.1 to $\leq 1\text{wt.}\%$ Cr expressed in terms of Cr_2O_3 therein.

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